

## Identifying Solutions - MCQ

Two-step: S2

Choose the correct solution that best describes each inequality.

1)  $\frac{|6x|}{54} + 5 < 6$

- a)  $(9, \infty)$                       b)  $(-\infty, -9) \cup (9, \infty)$   
 c)  $(-\infty, 9)$                     d)  $(-\infty, 9) \cap (-9, \infty)$

2)  $|3x + 15| > 30$

- a)  $(-\infty, -15) \cup (5, \infty)$                       b)  $(-\infty, 15) \cup (5, \infty)$   
 c)  $(-\infty, -5) \cup (15, \infty)$                     d) No solution

3)  $|-13x| + 4 \leq 43$

- a)  $(-\infty, 3] \cup [-3, \infty)$   
 c)  $[-3, \infty)$

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- b)  $(-\infty, 51] \cup [-51, \infty)$   
 d)  $[51, \infty)$

5)  $|10x| + 9 > 29$

- a)  $(-\infty, -2) \cup (2, \infty)$   
 c)  $(-\infty, -2)$

- b)  $(-\infty, 10) \cap (2, \infty)$   
 d)  $(-\infty, 10) \cap (-2, \infty)$

7)  $\frac{|x - 18|}{4} \geq -16$

- a)  $(-\infty, -46] \cup [-84, \infty)$                       b)  $(-\infty, -84] \cup [46, \infty)$   
 c)  $(-\infty, 46] \cap [-84, \infty)$                     d) No solution

8)  $|6x + 24| \leq 48$

- a)  $(-\infty, -12]$     b)  $(-\infty, 4] \cap [-12, \infty)$   
 c)  $(-\infty, 12] \cap [-4, \infty)$                               d)  $[4, \infty)$

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